

AMENDMENT

Amendment to the Specification

Please replace the paragraph at p. 21, second full paragraph, with the following amended paragraph:

Construction of Alzheimer's tau expression vectors consist of procedures that include:

- design of coding sequence especially deletions and truncations are shown in Fig. 1.
- these portions of tau gene were PCR amplified with the help of proofreading DNA polymerase and oligonucleotides equipped with appropriate restriction sequences, so that they can be cloned under general or tissue specific promoters in an eukaryotic expression vector, cloning was performed using standard procedures in a common bacterial strains
- verification of cloned genes was performed in order to check directionality of the inserted gene which was confirmed by restriction digestions and or PCR analysis (Fig. 2A). In addition, the constructs were partially sequenced to exclude the possible mutated forms
- purification of fragment intended for microinjection (Fig. 2B)
- verification of protein expression using transfections of transgene into mammalian cells, mainly COS-7 and C6 rat glioma cells, and analysis of expression of proteins in a eukaryotic cells by western blot method (Fig. 2C).

Please replace the paragraph spanning pp 18-19 with the following amended paragraph:

Fig. 3 Genotyping of transgenic founder animals and F1 generation of transgenic animals. Panel "A" shows controls for the genotyping experiment (+C, positive control; NAC, no amplification control; NTC, no template control). Panel "B" shows results of PCR genotyping. Sample number 12 represents a transgene positive animal Panel "C" outlines the breeding experiments performed to confirm founder animals. Furthermore the panel shows transgenic line of the present invention that has transmitted the transgene to the subsequent generations according to Mendelian laws.